



**wasp**  
TRACKING SOLUTIONS



**WDI4250** | 2D USB Barcode Scanner

## Durable Handheld Barcode Scanner Ideal for High Efficiency Applications



### Key Features

- Superior scanning
- LED-based technology with extreme precision aiming system
- 'Green Spot' technology for superior good-read feedback
- Motionix™ patented motion-sensing technology for seamless reading mode transitions
- Omnidirectional (with optional stand) reading for 1D, 2D, postal codes, stacked and composite bar codes and dot codes
- USB Type A
- Aladdin™ 3.0 configurator provides the latest GUI, search engines, and an on-line version that offers the ability to generate programming barcodes to scan directly on a smartphone

Learn more about Wasp tracking solutions at [www.waspbarcode.com](http://www.waspbarcode.com).

# WDI4250 | 2D USB Barcode Scanner

## OPTIC AND PERFORMANCE

Aiming: Blue LED emission 468 nm  
Illumination: Red LED emission 617 nm  
Image Capture: Graphic Formats: BMP, JPEG, TIFF; Greyscale: 256, 16, 2  
Image Sensor: VGA (640 x 480 pixels)  
Motion Tolerance: 30 IPS  
Resolution: 1D Linear: 0.077 mm / 3 mils; PDF417: 0.127 mm / 5 mils; Data Matrix: 0.152 mm / 6 mils; QR Code: 0.17 mm / 6.7 mils  
Scan Angle: Pitch: +/- 65°; Roll (Tilt): +/- 360°; Skew (Yaw): +/- 65°  
Print Contrast Ratio: minimum 15% with specific configuration  
Reading Indicators: Beeper (Adjustable Tone and Volume); 'Green Spot' Good-read feedback on the code; Good-read LED

## DEPTH OF FIELD

Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent.  
Code 39: 5 mils: 0.5 to 23.0 cm / 0.2 to 9.0 in  
Code 39: 10 mils: 0.5 to 37.0 cm / 0.2 to 14.5 in  
Data Matrix: 10 mils: 1.0 to 15.5 cm / 0.39 to 6.1 in  
EAN/UPCA: 13 mils: 1.0 to 40.0 cm / 0.39 to 15.7 in  
PDF417: 6.7 mils: 0.5 to 13.5 cm / 0.2 to 5.3 in  
QR Code: 20 mils: 1.0 to 33.0 cm / 0.39 to 12.9 in

## PHYSICAL CHARACTERISTICS

Dimensions (scanner only): 6.2 x 2.7 x 4.2 in (15.9 x 6.8 x 10.7 cm)  
Scanner Weight: 5.0 oz. (145.0 g.)  
Color: Black  
Connector: USB  
Trigger: Scan button  
Indicator: Beeper (Adjustable Tone and Volume), green spot for good-read feedback and good read LED

## CONNECTIVITY

USB Type A / USB

## USER ENVIRONMENT

Operating Temperature: 32~122°F (0~50°C)  
Storage Temperature: -40~158°F (-40~70°C)  
Humidity: 0%~95% (non-condensing)  
Drop Durability: 5 ft. (1.5 m)  
Particulate and Water Sealing: IP52  
Ambient Light: Up to 110,000 lux  
Trigger Resistance: Withstands 10 Mhits  
ESD Protection (Air Discharge): 16kV  
Symbolologies: Auto discriminates all standard 1D codes including GS1 DataBar™ linear codes. Aztec Code; China Han Xin Code; Data Matrix; MaxiCode; Micro QR Code; QR Code; Dot code. Australian Post; British Post; China Post; IMB; Japanese Post; KIX Post; Planet Code; Postnet; Royal Mail Code (RM4SCC). EAN/ JAN Composites; GS1 DataBar Composites; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; MacroPDF; MicroPDF417; PDF417; UPC A/E Composites.

## REGULATORY

ESD Protection (Air Discharge): 16 kV  
LED Classification: Illuminator Exempt group, Aiming Risk Group 1 according to IEC 62471  
Agency Approvals: The product meets necessary safety and regulatory approvals for its intended use. The Quick Reference Guide for this product can be referred to for a complete list of certifications.  
Environmental: Complies to China RoHS; Complies to EU RoHS

## ACCESSORIES

WaspProtect Extended Warranty (SKU 633809002984)  
Wasp WDI4250 Stand (SKU 633809013461)



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